

FIG. 1

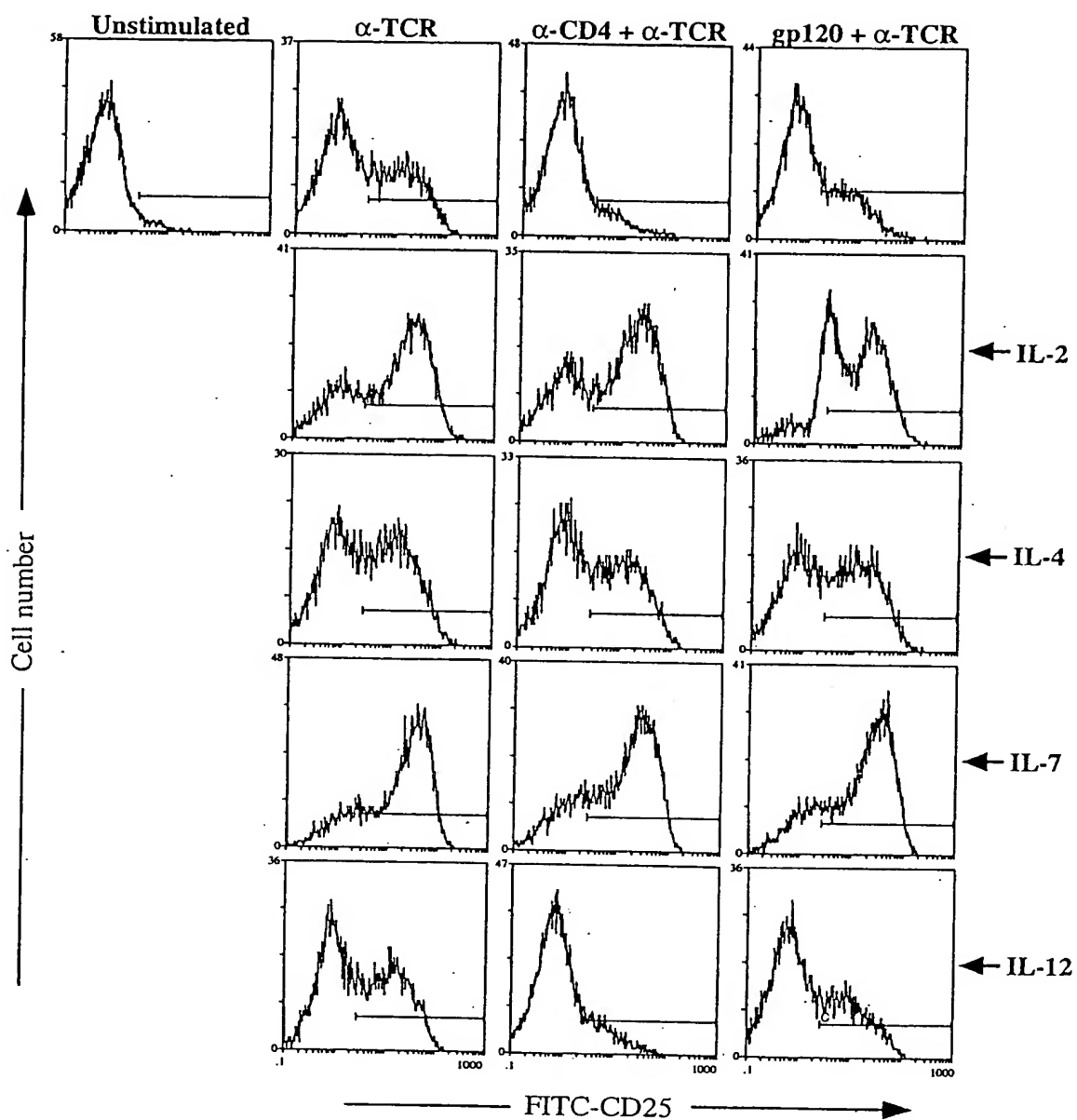


FIG. 2A

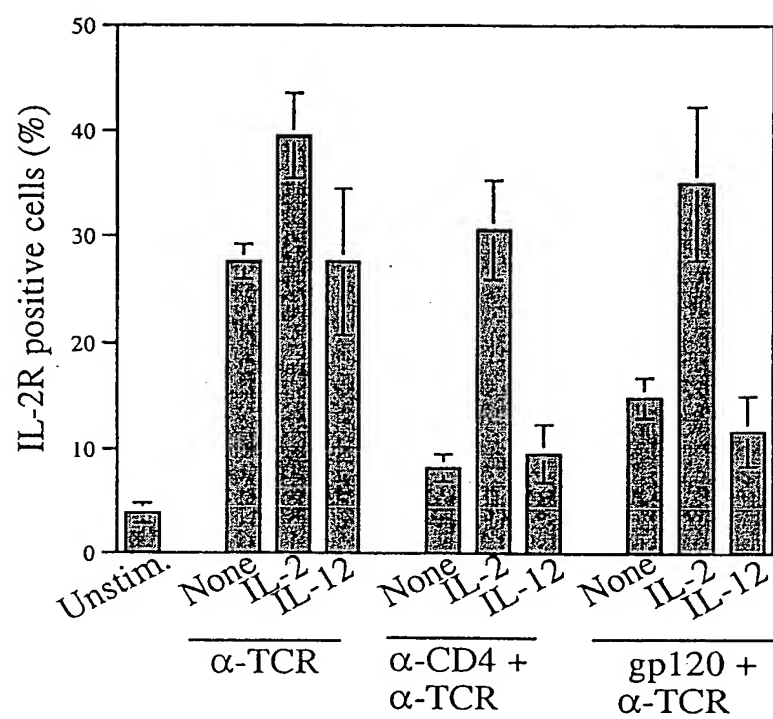


FIG. 2B

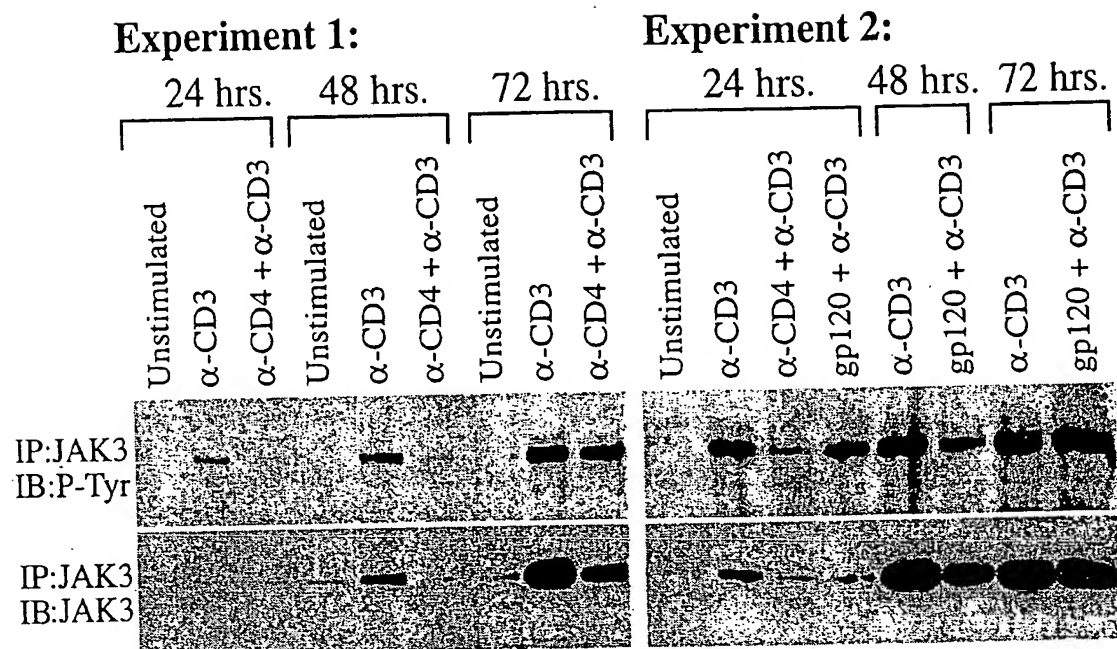


FIG. 3 A

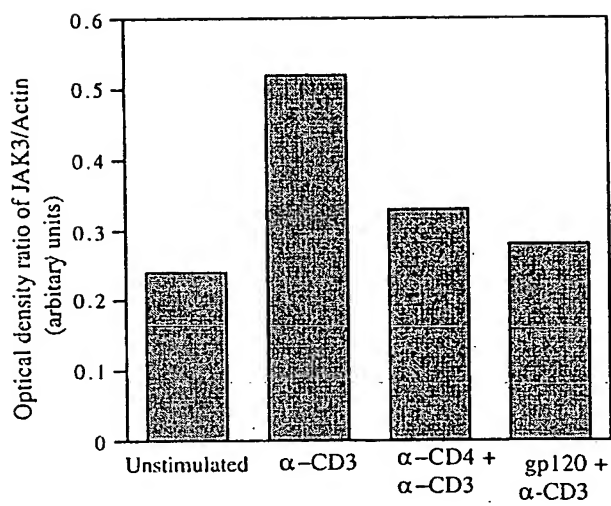


FIG. 3 B

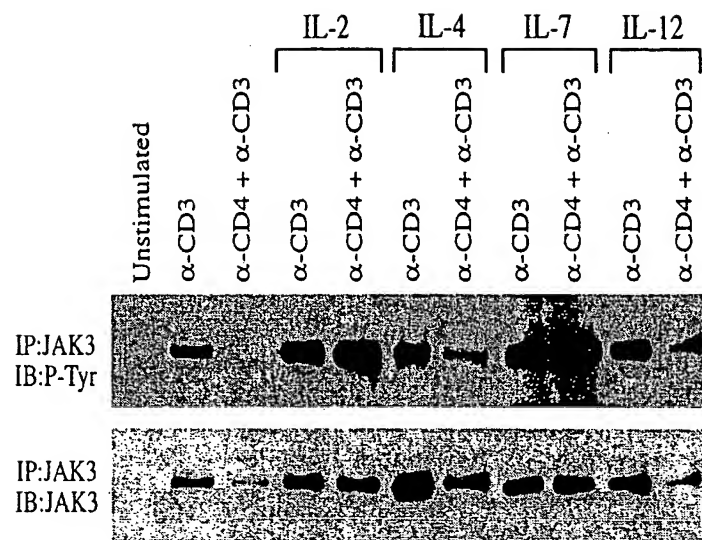


FIG. 4

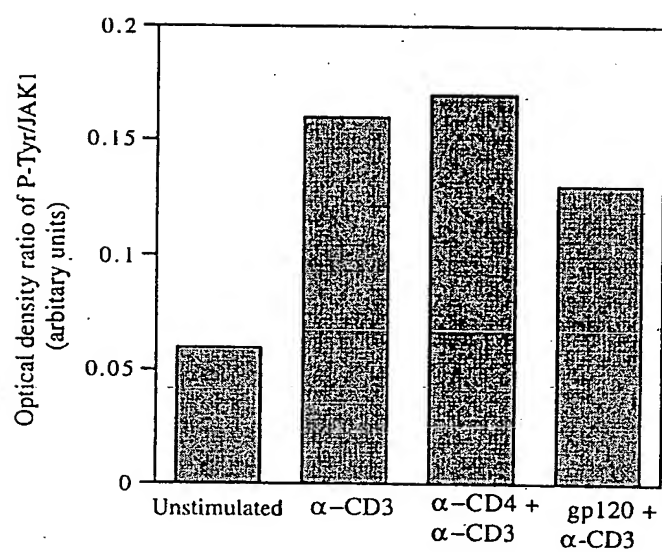


FIG. 5A

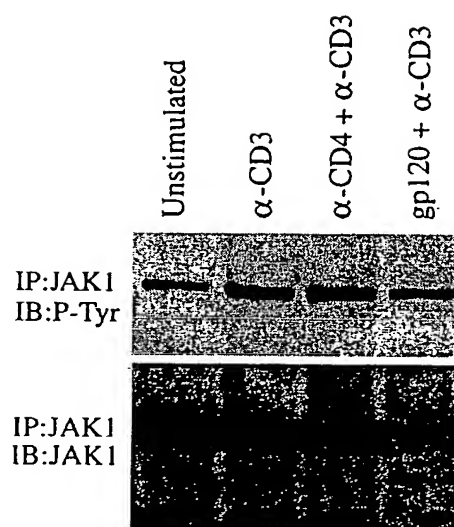


FIG. 5B

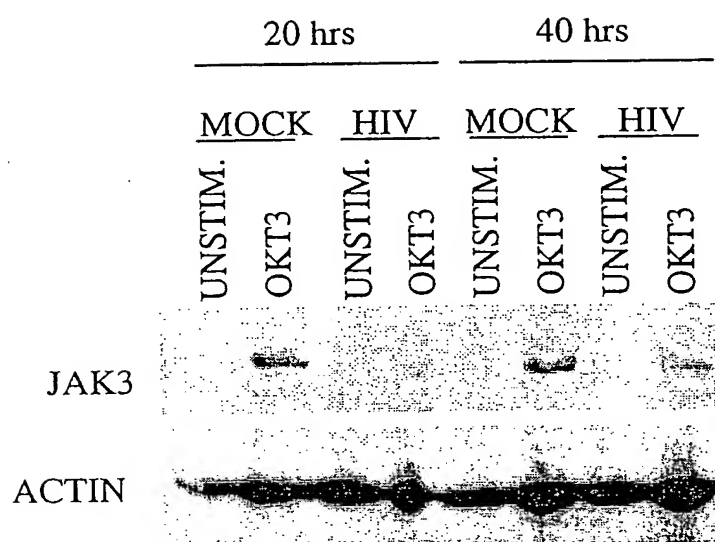


FIG. 6A

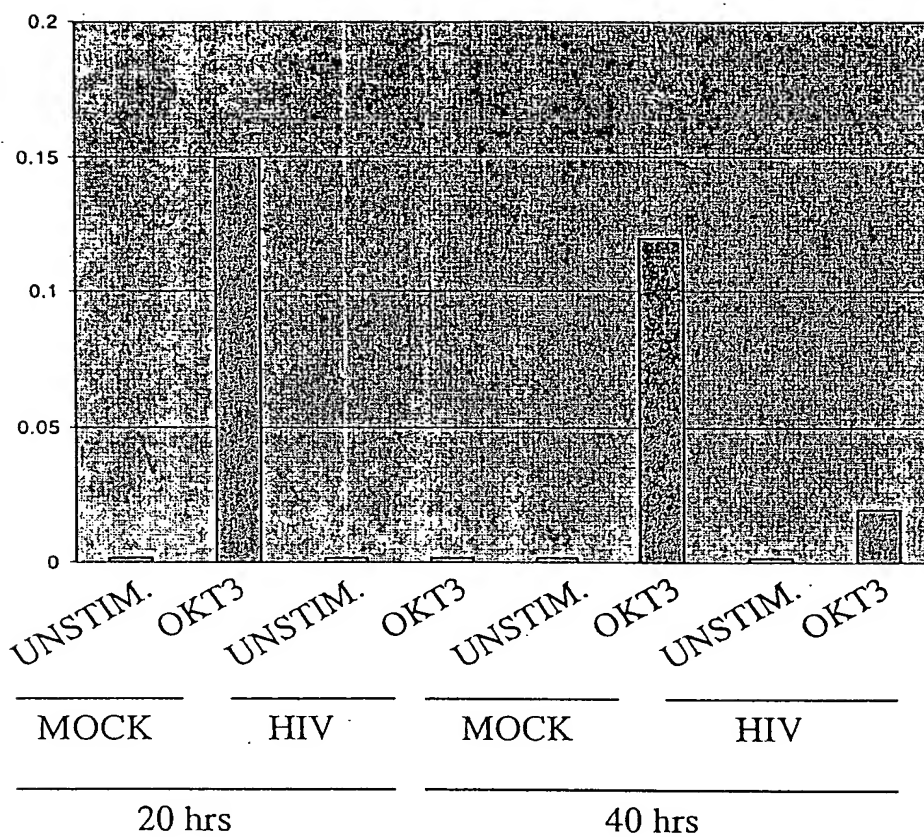


FIG. 6B

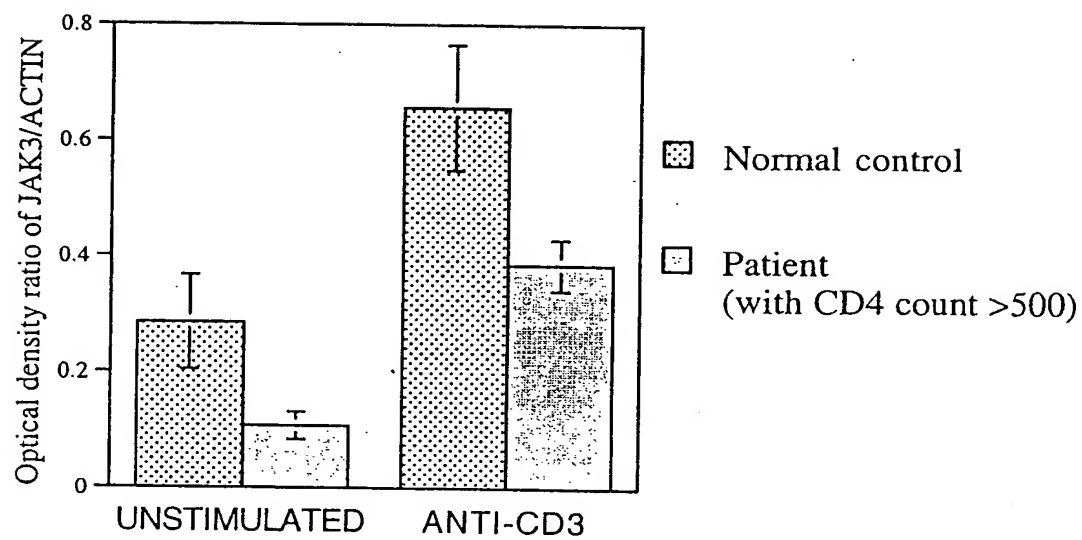


FIG. 7

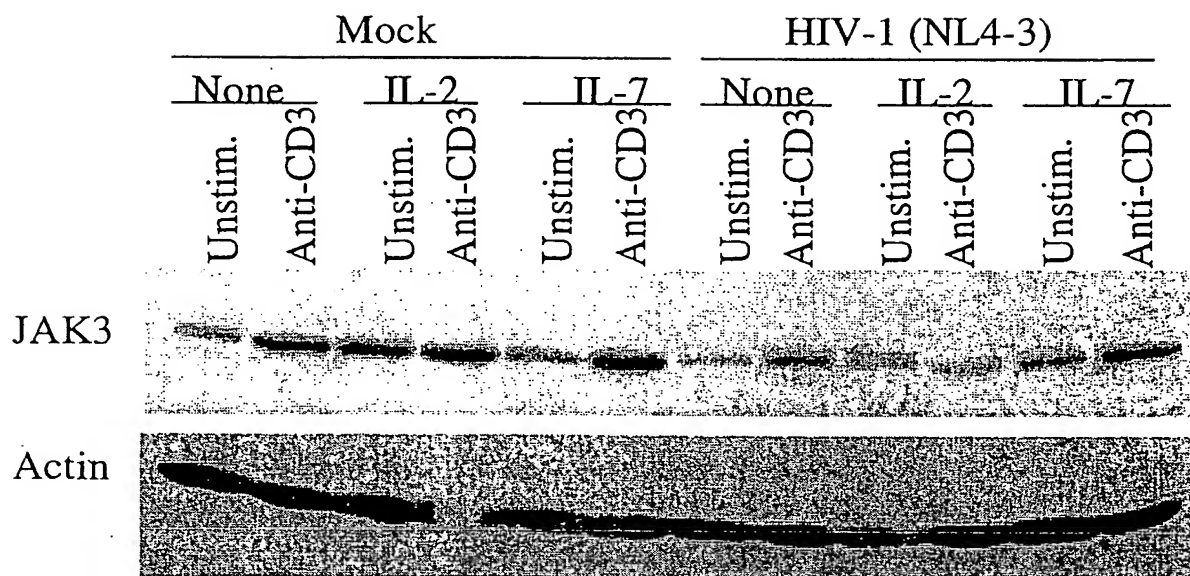


FIG. 8A

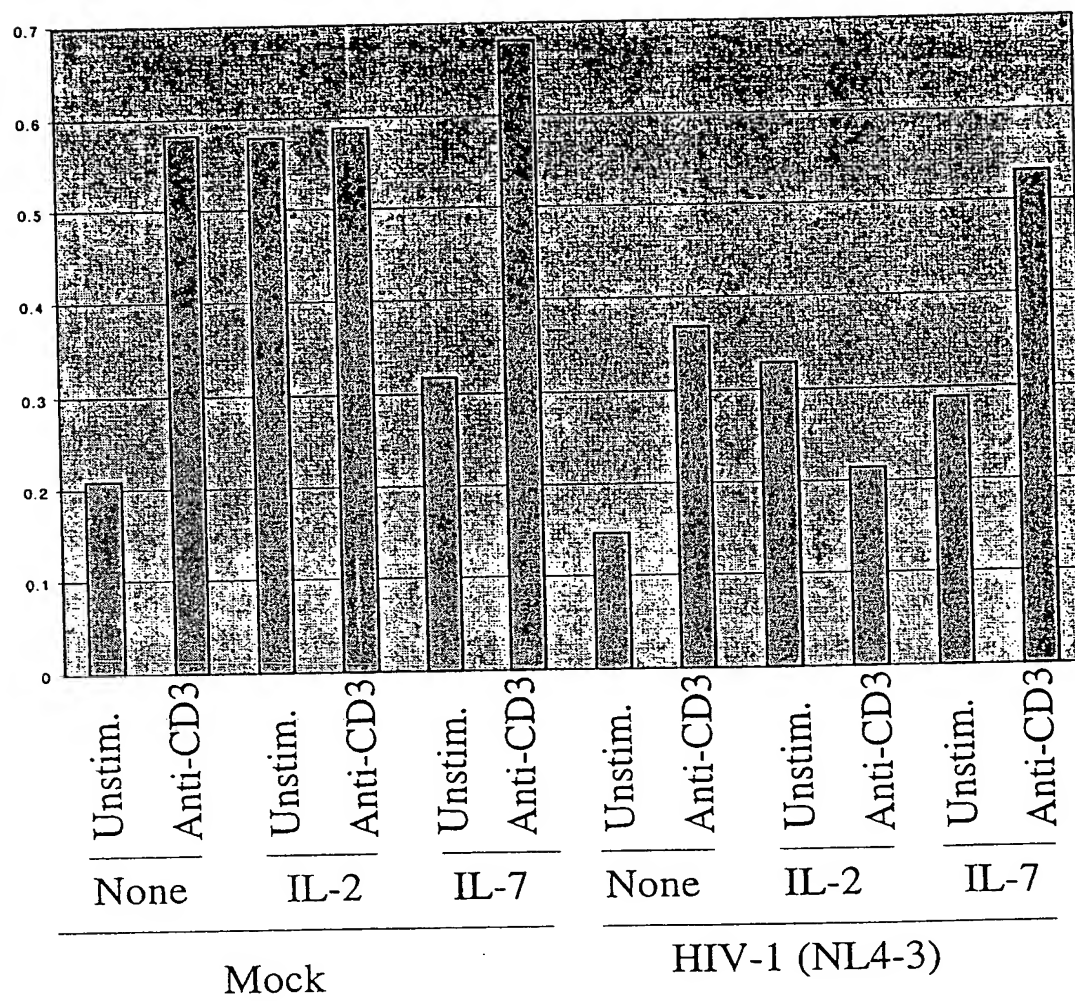


FIG. 8B

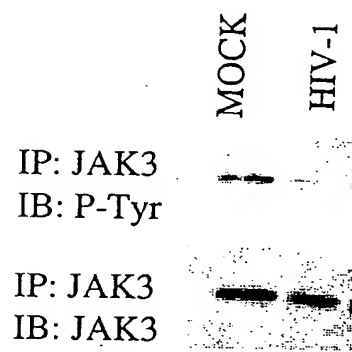


FIG. 9A

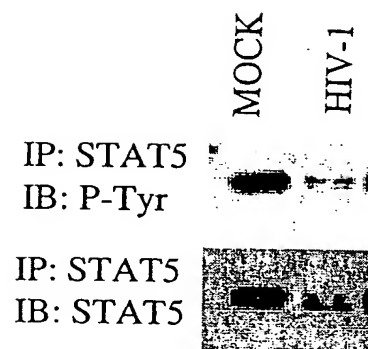


FIG. 9B

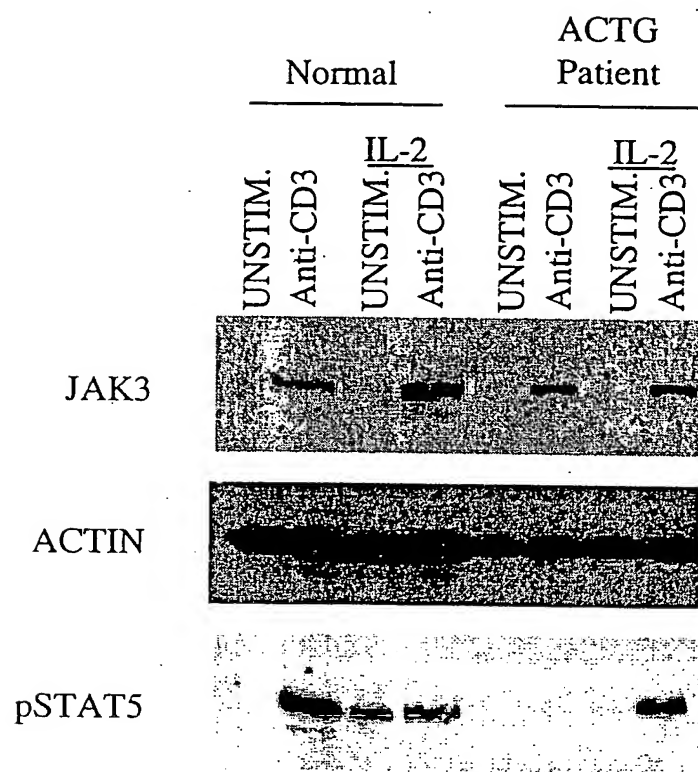


FIG. 10

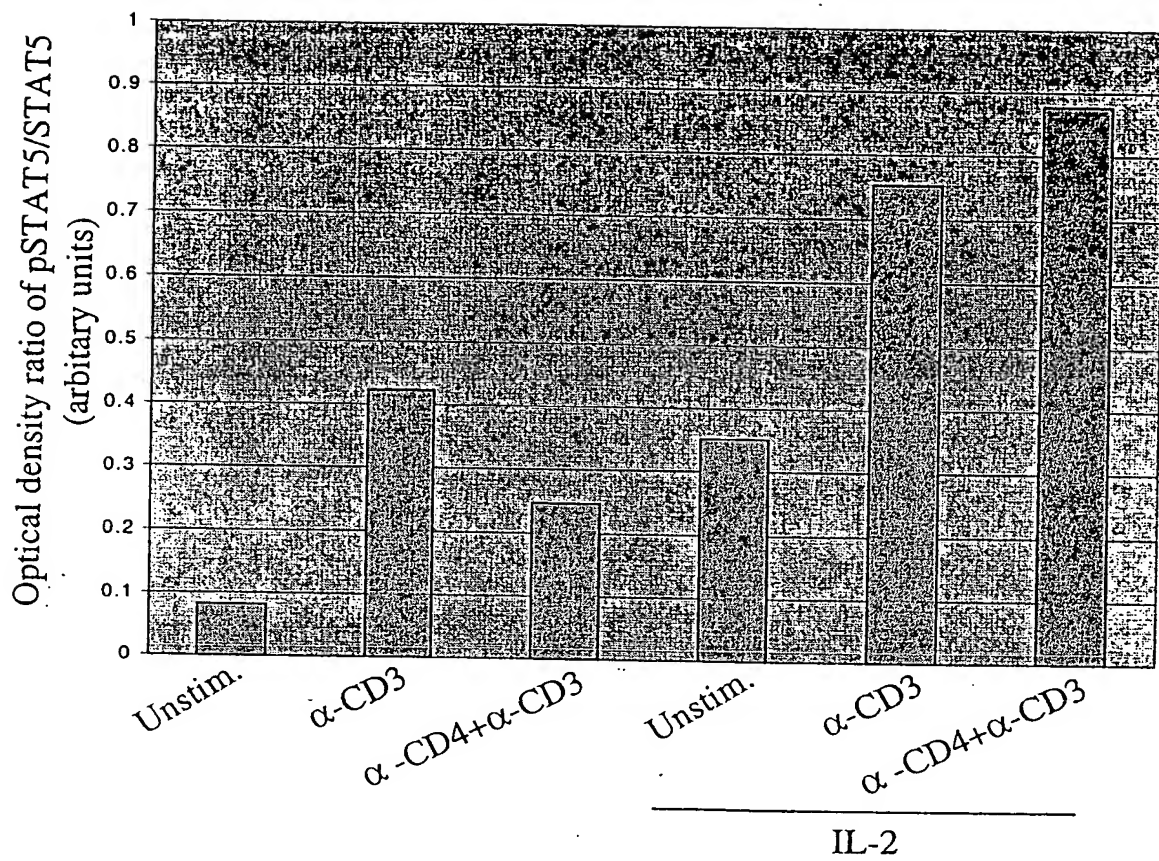


FIG. 11A

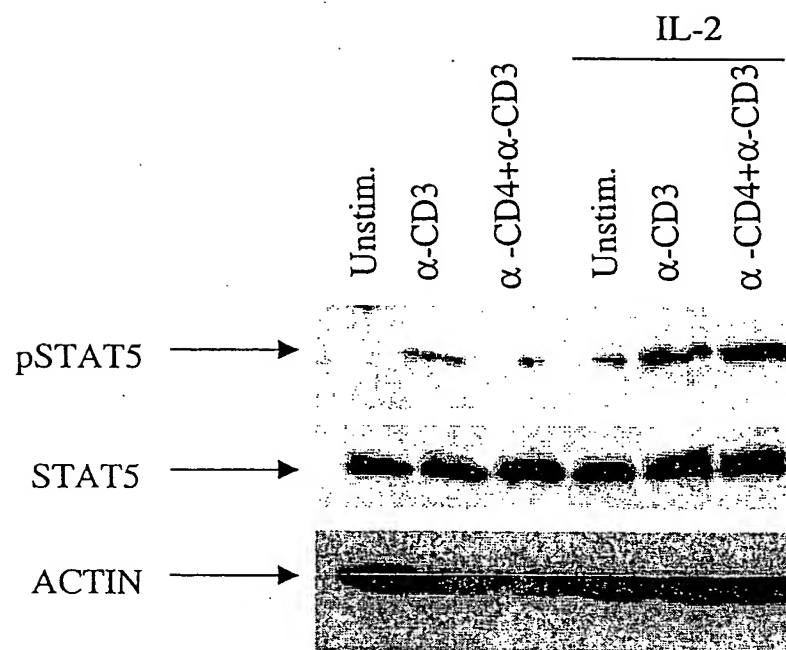


FIG. 11B

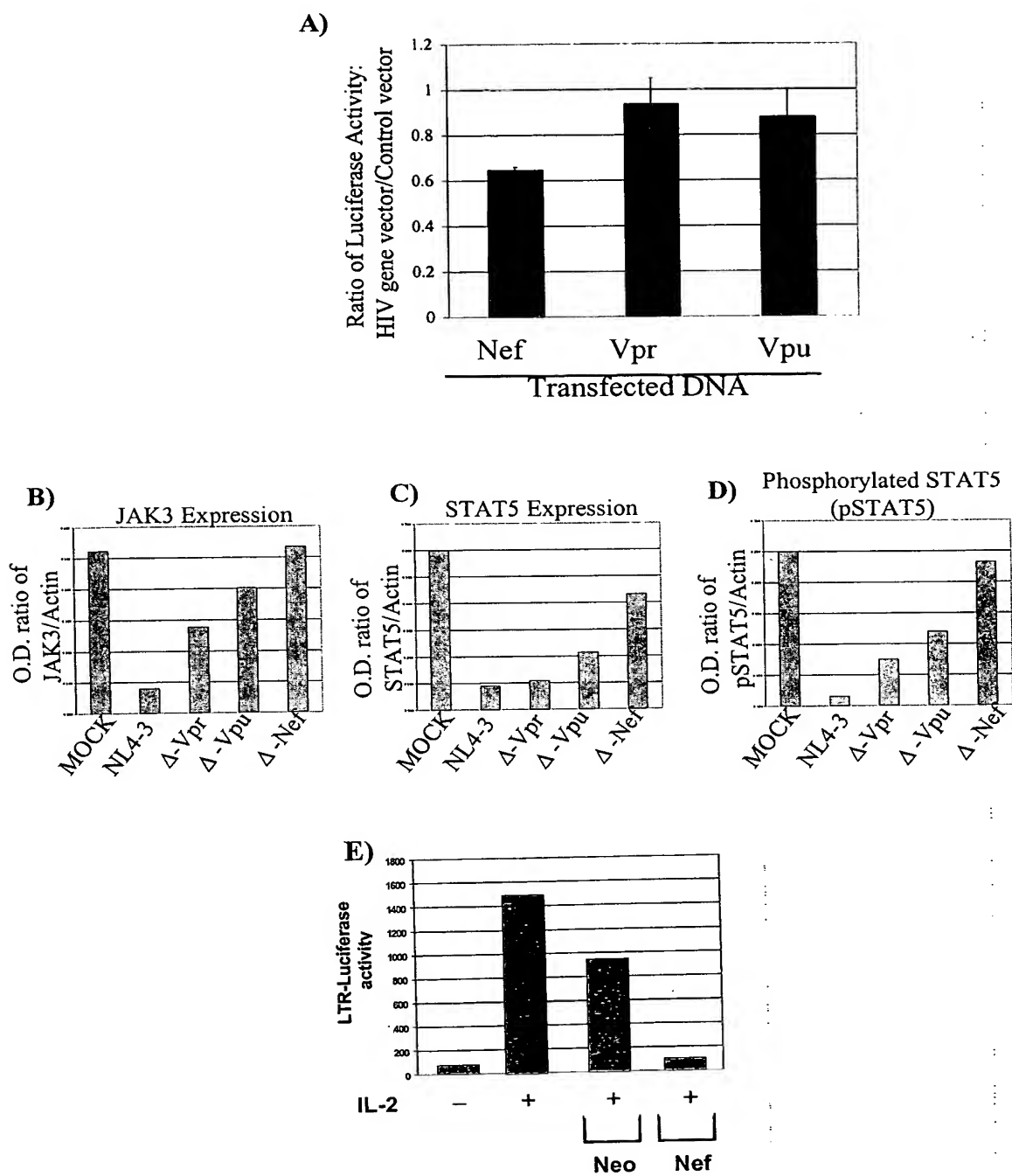


Figure 12

CCTTTAAGACCAATGACTTACAAGGCAGCTGTAGATCTTAGCCACTTTTTAAAAG
AAAGGGGGGACTGGAAGGGCTAATTCCTCCCAAAGAAGACAAGATATCCTTG

(S1)

ATCTGTGGATCTACCACACACAAGGCTACTTCCCTGATTAGCAGAACTACA
CACCAGGGCCAGGGGTCAGATATCCACTGACCTTTGGATGGTGCTACAAGCTAG
TACCAGTTGAGCCAGATAAGATAGAAGAGGCCAATAAAGGAGAGAACACCAGC
TTGTTACACCCTGTGAGCCTGCATGGGATGGATGACCCGGAGAGAGAAGTGTTA
GAGTGGAGGTTTGACAGCCGCCTAGCATTTTCATCACGTGGCCCGAGAGCTGCAT

(S2)

CCGGAGTACTTCAAGAACTGCTGACATCGAGCTTGCTACAAGGGACTTTCC

(S3)

GCTGGGGACTTCCAGGGAGGCGTGGCCTGGGCGGGACTGGGGAGTGGCG
AGCCCTCAGATCCTGCATATAAGCAGCTGCTTTTGCCTGTACTGGGTCTCTCTG
GTTAGACCAGATCTGAGCCTGGGAGCTCTCTGGCTAACTAGGGAACCCACTGCT
TAAGCCTCAATAAAGCTTGCCTTGAGTGCTTC

Figure 13

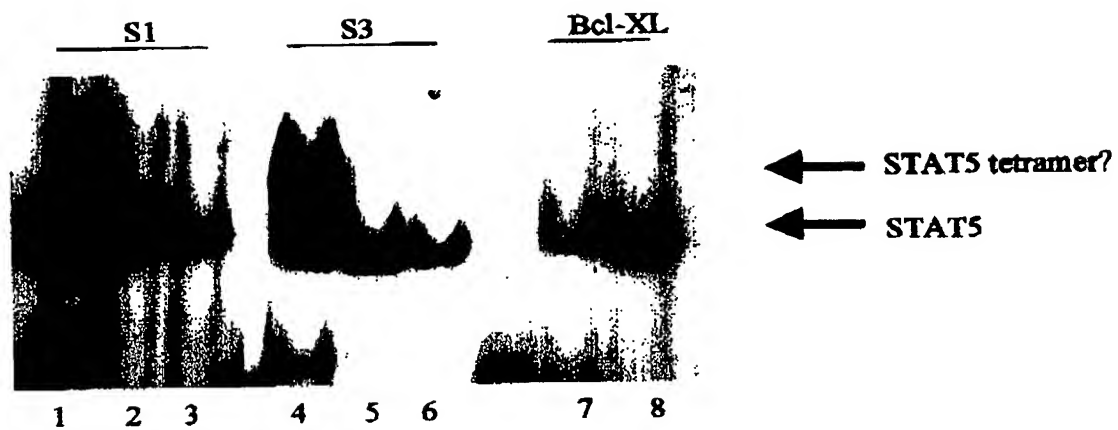


Figure 14

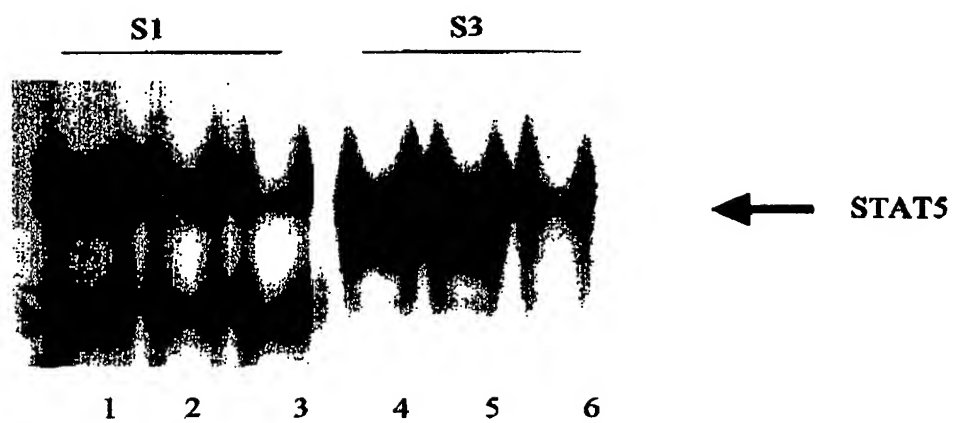


Figure 15

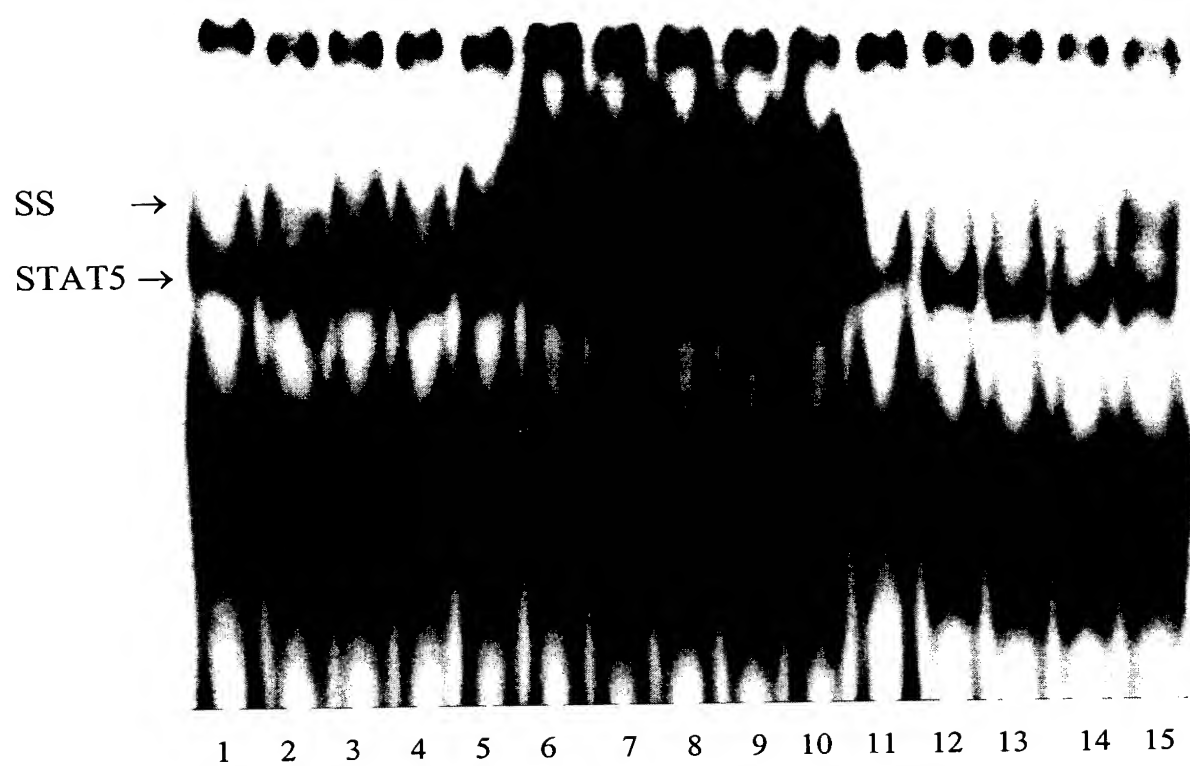


FIG. 16

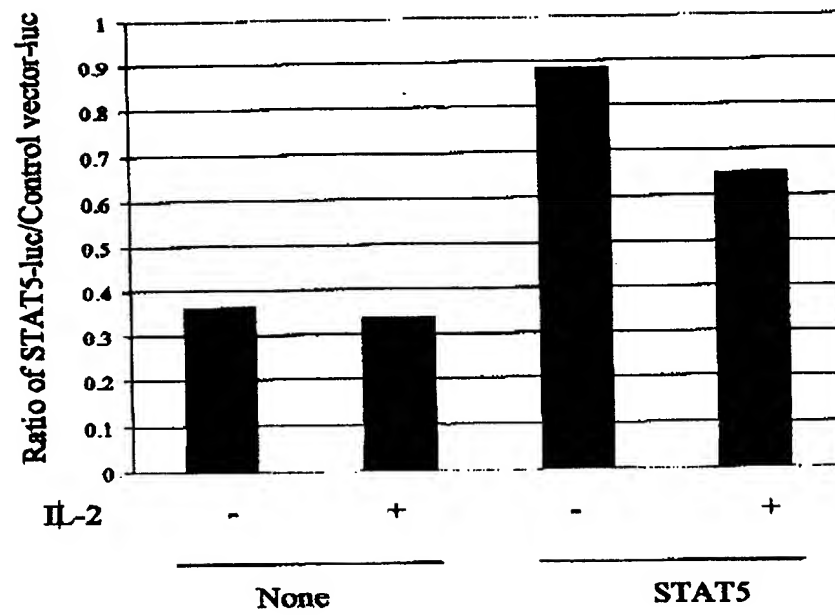


Figure 17

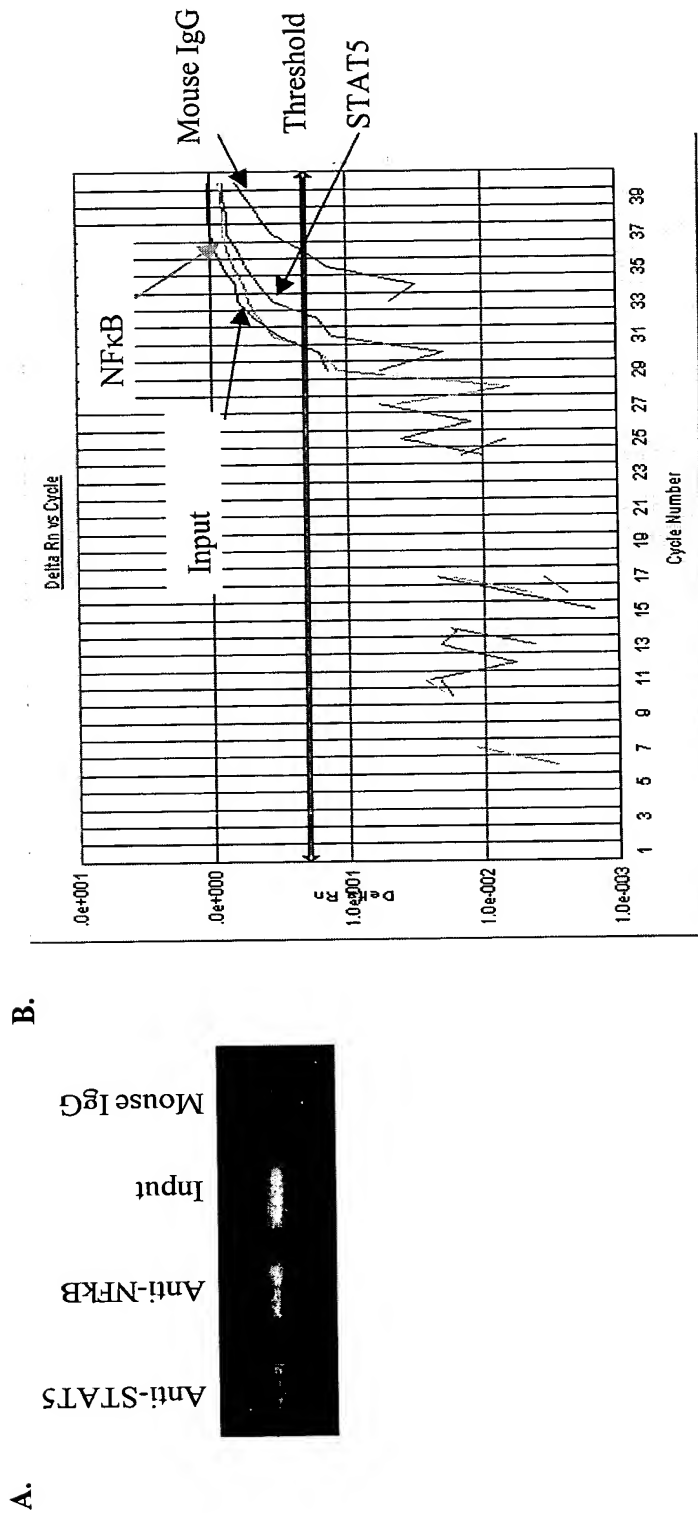


Figure 18

A) Human T-lymphotropic virus 1 isolate ES02-JCP long terminal repeat, 5' partial sequence.

```
cagggccag actagggctc tgacgtctcc ccccgaggag acagctcagc accgggtcag 61
gctagggcct gacgtgtccc cctgaagaca aatcataagc tcagacctcc gggaagccac 121
cggaaccacc catttctcc ccatgtttgt caagccgccc tcaggcggtg acgacaaccc 181
ctcacctcaa aaaactt TTCATGGCA cgca tatggctgaa taaactaaca ggagtctata 241
aaagcgtgga gacag TTCAG GAG ggggctc gcattctctc ttcacgcgcc cgccgcccta 301
cctgaggccg ccatccacgc cggttgagtc gcgttctgcc gctcccgc tgtggtgect 361
cctgaactgc gtccgccgtc taggtaagtt cagagctcag gtcgagaccg ggcctttgtc 421
cggcgctccc ttggagcctg cctagactca gccggctctc cacgctttgc ctgacctgc 481
ttgctcaact ctgcgtcttt gtttcgtttt ctg TTCTGCGCC g ctacaga tcgaaagtcc 541
caccctttc cctttcattc acg
```

B) FIV genome
5' LTR = 1..355

```
1 tgggatgagt attggaaccc tgaagaaata gaaagaatgc ttatggacta gggactgttt 61
acgaacaaat gataaaagga aatagctgag catgactcat agttaagcg ctacgagctg 121
cctaaccgca aaaccacatc ctatggaaaag cttgctaattg acgtataagt tgtccattg 181
taagagtata taaccagtgc tttgtgaaac TTTCGAGGAG t ctctttgttg aggacttttg 241
agttctccct tgaggctccc acagatacaa taaatatttg agattgaacc ctgtcgagta 301
tctgtgtaat cttttttacc tgtgaggtct cggaatcccg gccgagaact tcgcagttgg
```

C) SIV genome
5' LTR = 1..688

```
tggatgggat atattactct gaaagaagag aaaagatcct gaatttgtat gccttgaacg 61
agtggggaat aatagatgat tggcaagctt actcaccagg cccggggata aggtaccga 121
gagtccttgg cttctgcttt aagctagtcc cagtggacct gcatgaggag gcacgcaact 181
gtgagagaca ctgtctgatg catccagcac agatggggga agatcctgat ggaatagatc 241
atggagaagt cttggctggt aagtttgacc cgaagttggc ggtggagtac cgcccgaca 301
tgtttaagga catgcacgaa catgcaaagc gctagtgtca gcactttgcg gttgggactt 361
tccgccaggg actttccaca gtgggtggat cggaggcggt acaggggcgg tactgggagt 421
ggctttcccc tcagagctgc ataaaagcag atgctcgctg gcttgtaact cagtctctta 481
ctaggagacc agctagagcc tgggtg TTGCTGGT tagcc taaccgggtt ggccaccggg 541
ggtaaggact ccttggtctc ataatagctc ataaacctgc tcgcttagtc gctatattgg 601
agtcaagtgc tcattgctgc gccgagcctc tagaggtgaa cctctcttac tgggttctcc 661
tgtaccagg tgggagaaac tccagcagtg
```

Figure 19

A) STAT 5A

MAGWIAQQQLQGDALRQMQLVLYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRAQA
TQLEGLVQELQKKAHQVGEDGFLKIKLGHYATQLQKTYDRCPLELVRCIRHILY
NEQRLVREANNCS SPAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEY
FIIQYQESLRIQAQFAQLAQLSPQERLSRETALQQKQVSLEAWLQREAO TLQQYRVE
LAEKHQKTLQLLRKQQTII LDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLA EI
IWQNRQQIRRAEHL CQQLPIPGPVEEMLAEVNATITDII SALVTSTFII EKQPPQVL
KTQTKFAATVRLLVGGKLVHVMNPPQVKATII SEQQAKSLLKNENTRNECSGEILNN
CCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELV
FQVKTL SLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNM
KFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGWNYTF
WQWFDGVM EVLKKHKKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFS DSEIGGI
TIAWKFDSPERNLWNLKPFTTRDFSIRSLADRLGDL SYLIYVFPDRPKDEVFSKY YT
PVLAKAVDGYVKPQIKQVVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNMYPQN
PDHVLDDQDGEFDLDETMDVARHVEELLRRPMDSLDSRLSPAGLFTSARGSL S

B) STAT 5B

MAVWIAQQQLQGEALHQMQLALYGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKA
TQLEGLVQELQKKAHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILY
NEQRLVREANNNGSSPAGSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEY
FIIQYQESLRIQAQFGPLAQLSPQERLSRETALQQKQVSLEAWLQREAO TLQQYRVE
LAEKHQKTLQLLRKQQTII LDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLA EI
IWQNRQQIRRAEHL CQQLPIPGPVEEMLAEVNATITDII SALVTSTFII EKQPPQVL
KTQTKFAATVRLLVGGKLVHVMNPPQVKATII SEQQAKSLLKNENTRNDYSGEILNN
CCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFESQFSVGGNELV
FQVKTL SLPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNM
KFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGRNYTF
WQWFDGVM EVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFS DSEIGGI
TIAWKFD SQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSKY YT
PVPCE SATAKAVDGYVKPQIKQVVPEFVNASADAGGSSATYMDQAPSPAVCPQAHYN
MYPQNPDSVLDTDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS

Figure 20